



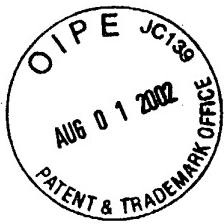
Docket No.: 7853-234-999
 Serial No.: 09/829,495
 Inventor(s): BUSFIELD ET AL.
 Title: "GLYCOPROTEIN VI AND USES THEREOF"

009323234425 0093041022

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	M	S	P	S	P	T	A	L	F	C	L	11								
GGAGTCGACCCACCGTCCGCAGGGCTGAGGAACC	ATG	TCT	CCA	TCC	CCG	ACC	GCC	CTC	TTC	TGT	CTT	68								
G	L	C	L	G	R	V	P	A	Q	S	G	P	L	P	K	P	S	L	Q	31
GGG	CTG	TGT	CTG	GGG	CGT	GTG	CCA	GCG	CAG	AGT	GGA	CCG	CTC	CCC	AAG	CCC	TCC	CTC	CAG	128
A	L	P	S	S	L	V	P	L	E	K	P	V	T	L	R	C	Q	G	P	51
GCT	CTG	CCC	AGC	TCC	CTG	GTG	CCC	CTG	GAG	AAG	CCA	GTG	ACC	CTC	CGG	TGC	CAG	GGA	CCT	188
P	G	V	D	L	Y	R	L	E	K	L	S	S	S	R	Y	Q	D	Q	A	71
CCG	GGC	GTG	GAC	CTG	TAC	CGC	CTG	GAG	AAG	CTG	AGT	TCC	AGC	AGG	TAC	CAG	GAT	CAG	GCA	248
V	L	F	I	P	A	M	K	R	S	L	A	G	R	Y	R	C	S	Y	Q	91
GTC	CTC	TTC	ATC	CCG	GCC	ATG	AAG	AGA	AGT	CTG	GCT	GGA	CGC	TAC	CGC	TGC	TCC	TAC	CAG	308
N	G	S	L	W	S	L	P	S	D	Q	L	E	L	V	A	T	G	V	F	111
AAC	GGA	AGC	CTC	TGG	TCC	CTG	CCC	AGC	GAC	CAG	CTG	GAG	CTC	GTT	GCC	ACG	GGA	GTT	TTT	368
A	K	P	S	L	S	A	Q	P	G	P	A	V	S	S	G	G	D	V	T	131
GCC	AAA	CCC	TCG	CTC	TCA	GCC	CAG	CCC	GGC	CCG	GCG	GTG	TCG	TCA	GGA	GGG	GAC	GTA	ACC	428
L	Q	C	Q	T	R	Y	G	F	D	Q	F	A	L	Y	K	E	G	D	P	151
CTA	CAG	TGT	CAG	ACT	CGG	TAT	GGC	TTT	GAC	CAA	TTT	GCT	CTG	TAC	AAG	GAA	GGG	GAC	CCT	488
A	P	Y	K	N	P	E	R	W	Y	R	A	S	F	P	I	I	T	V	T	171
GCG	CCC	TAC	AAG	AAT	CCC	GAG	AGA	TGG	TAC	CGG	GCT	AGT	TTC	CCC	ATC	ATC	ACG	GTG	ACC	548
A	A	H	S	G	T	Y	R	C	Y	S	F	S	S	R	D	P	Y	L	W	191
GCC	GCC	CAC	AGC	GGA	ACC	TAC	CGA	TGC	TAC	AGC	TTC	TCC	AGC	AGG	GAC	CCA	TAC	CTG	TGG	608
S	A	P	S	D	P	L	E	L	V	V	T	G	T	S	V	T	P	S	R	211
TCG	GCC	CCC	AGC	GAC	CCC	CTG	GAG	CTT	GTG	GTC	ACA	GGA	ACC	TCT	GTG	ACC	CCC	AGC	CGG	668
L	P	T	E	P	P	S	S	V	A	E	F	S	E	A	T	A	E	L	T	231
TTA	CCA	ACA	GAA	CCA	CCT	TCC	TCG	GTA	GCA	GAA	TTC	TCA	GAA	GCC	ACC	GCT	GAA	CTG	ACC	728
V	S	F	T	N	K	V	F	T	T	E	T	S	R	S	I	T	T	S	P	251
GTC	TCA	TTC	ACA	AAC	AAA	GTC	TTC	ACA	ACT	GAG	ACT	TCT	AGG	AGT	ATC	ACC	ACC	AGT	CCA	788
K	E	S	D	S	P	A	G	P	A	R	Q	Y	Y	T	K	G	N	L	V	271
AAG	GAG	TCA	GAC	TCT	CCA	GCT	GGT	CCT	GCC	CGC	CAG	TAC	TAC	ACC	AAG	GGC	AAC	CTG	GTC	848
R	I	C	L	G	A	V	I	L	I	I	L	A	G	F	L	A	E	D	W	291
CGG	ATA	TGC	CTC	GGG	GCT	GTG	ATC	CTA	ATA	ATC	CTG	GCG	GGG	TTT	CTG	GCA	GAG	GAC	TGG	908
H	S	R	R	K	R	L	R	H	R	G	R	A	V	Q	R	P	L	P	P	311
CAC	AGC	CGG	AGG	AAG	CGC	CTG	CGG	CAC	AGG	GGC	AGG	GCT	GTG	CAG	AGG	CCG	CTT	CCG	CCC	968

FIG.1A



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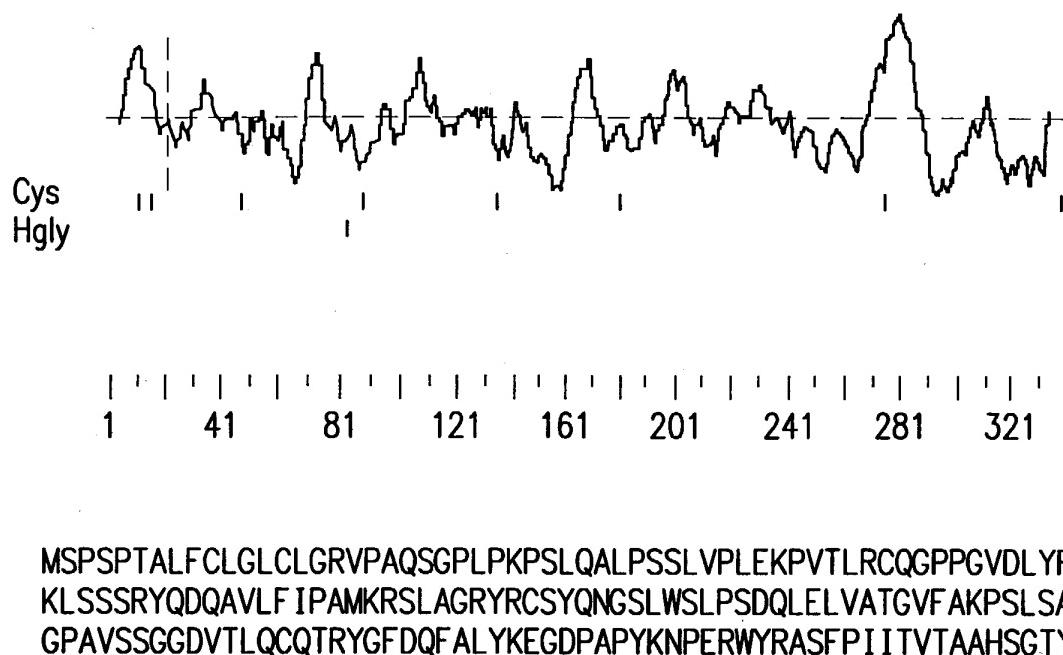
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CTG	CCG	CCC	CTC	CCG	CAG	ACC	CGG	AAA	TCA	CAC	GGG	GGT	CAG	GAT	GGA	GGC	CGA	CAG	GAT	1028
V H S R G L C S *																			340	
GTT CAC AGC CGC GGG TTA TGT TCA TGA																			1055	
CCGCTGAACCCCAGGCACGGTCGTATCCAAGGGAGGGATCATGGCATGGGAGGCCACTCAAAGACTGGCGTGTGGAG 1134																				
CGTGGAAAGCAGGAGGGCAGAGGCTACAGCTGTGGAAACGAGGCCATGCTGCCTCCTGGTGTCCATCAGGGAGCCG 1213																				
TTCGGCCAGTGTCTGTCTGTCTGCCTCTGTCTGAGGGCACCCCTCATTGGATGGAAGGAATCTGTGGAGAC 1292																				
CCCCATCCTCCCTGCACACTGTGGATGACATGGTACCCCTGGCTGGACCACATACTGGCTCTTCTAACCTCT 1371																				
AATATGGGCTCCAGACGGATCTCTAAGGTTCCAGCTCTCAGGGTTGACTCTGTTCCATCCTCTGTGAAAATCCTCCT 1450																				
GTGCTTCCCTTGGCCCTCTGTCTCTGCTCTGGTTCCAGAAACTCTCACCCCTACTCCATCTCCACTGCGGTC 1529																				
TAACAAATCTCCTTCGTCTCTCAGAACGGTCTTGAGGCAGTTGGGTATGTCATTCACTTCTTAGTGAAAATCT 1608																				
AGCACGTTGCCGCTTCCCTCACATTAGAAAACAAGATCAGCCTGTGCAACATGGTAAACCTCATCTTACCAACAA 1687																				
AACAAAAAAACACAAAAATTAGCCAGGTGTGGTGGTCATCCCTACTCCCAGCAACTCGGGGGCTGAGGTGGAGA 1766																				
ATGGCTTGAGCCTGGGAGGCAGAGGTTGCAGTGAGCTGAGATCACACCACTGCACTCTAGCTGGGTGACGAAGCCTGA 1845																				
CCTTGTCTAAAAAATACAGGGATGAATATGTCATTACCTGATTGATCATAGCACGTTGTATACATGTACTGCAAT 1924																				
ATTGCTGTCCACCCATAAATATGTACAATTATGTATACATTAAAATCATAAAAATAAGATAATGAAAAAAAAA 2003																				
AAAAAAAAAAAAAGGGCGGGCGCTAGACTAGTCTAGAGAACAA 2047																				

FIG. 1B



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MSPSPTALFCLGLCLGRVPAQSGPLPKPSLQALPSSLVPLEKPVTLCQQGPPGVDLYRLE
KLSSSRYQDQAVLFIPAMKRSLAGRYRCSYQNGSLWSLPSDQLELVATCVFAKPSLSAQP
GPAVSSGGDVTLQCQTRYGFDQFALYKEGDPAPYKNPERWYRASFPIITVTAHSGTYRC
YSFSSRDPLYLWSAPSDPLELVVTGTSVTPSRLPTEPPSSVAEFSSEATAELTVSFTNKVFT
TETSRSTITSPKESDSPAGPARQYYTKGNLVRICLGAVILIILAGFLAEDWHSRRKRLRH
RGRAVQRPLPPLPPLPQTRKSHCGQDGGRQDVHSRG LCS

FIG.2

10	20	30	40	50	60	70
inputs ATGACGCCGCCCTCACAGCCCTGCTCTGCCTTGGCTGAGTCTGGGCCAGGACCCGCGTCAGGCAG						
::: ::						
ATGTCTCCATCCCCGACCGCCCTCTCTGTCTTGGCTGTCTGGGCC-TGTGCCAGC-GCAGAGTG						
10	20	30	40	50	60	
80	90	100	110	120	130	
inputs GGCCCTTCCCACACCCTCTGGCTGAGCCAGGCTGTGAT-CAGCTGGGGAGCCCCTGACCA						
::: ::						
GACCGCTCCCCAACGCCCTCCCTCAGGCTCTGCCAGCTCCCTGGTCCCCCTGGAGAACCA-GTGACCC						
70	80	90	100	110	120	130
140	150	160	170	180	190	200
inputs TCTGGTGTCAAGGGAGGCCCTGGAGGGCCAGGAGTACCGACTGGATAAAGAGGGAAAGCCCAGAGCCCTTGGAA						
:: ::						
TCCGGTGCCAGGG-ACCT-----CCGGCGTG-GACCTGTA-----CCGCCTGGAG-AAG						
140	150	160	170		180	
210	220	230	240	250	260	270
inputs CAGAAATAACCCACTGGAACCCAAGAACAAAGGCCAGATTCTCCATCCCATCCATGACAGAGCACCATGCG						
::: ::						
CTGAGTT-CCAGCAGGTACC-AGGATCA-GGCAGTCCTTCAATCCCGGCATGAAGAGAACGCTGGCT						
190	200	210	220	230	240	
280	290	300	310	320	330	340
inputs GGGAGATACCGCTGCCACTATTACAGCTCTGCAG-GCTGGTCAGAGCCCAGCGACCCCTGGAGCTGGT						
:: : ::						
GGACGCTACCGCTGCTCCTAC-CAGAACGGAAGCCTCTGGTCCCTGCCAGCGACCAGCTGGAGCTCGT						
250	260	270	280	290	300	310
350	360	370	380	390	400	410
inputs GATGACAGGATTCTACAACAAACCCACCCCTCTCAGCCCTGCCAGCCCTGTGGTGGCCTCAGGGGGAAAT						
. ::						
TGCCACGGAGTTTGCCAAACCCCTCGCTCTCAGCCCAGCCGGCCGGTGTGTCAGGAGGGGAC						
320	330	340	350	360	370	380
420	430	440	450	460	470	480
inputs ATGACCCCTCCGATGTGGCTCACAGAAGGGATATCACCATTGTTCTGATGAAGGAAGGAGAACACCAGC						
. :: :: :: . :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: ::						
GTAACCCCTACAGTGTCACTCGGTATGGCTTGAACCAATTGCTGTACAAGGAAGG-----						
390	400	410	420	430	440	
490	500	510	520	530	540	550
inputs TCCCCCGGACCCCTGGACTCACAGCAGCTCACAGTGGGGTTCCAGGCCCTGTTCCCTGTGGCCCCGT						
:: ::						
-GGACCTG-----C-GCCCTA-----CAA						
450					460	

FIG.3A



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	560	570	580	590	600	610	620
inputs	GAACCCCAGCCACAGGTGGAGGTTACATGCTATTACTATTATGAACACCCCCCAGGTGTGGTCCCAC						
	470	480	490			500	
	630	640	650	660	670	680	690
inputs	CCCAGTGACCCCTGGAGATTCTGCCCTCAGGCGTGTCTAGGAAGCCCTCCCTCCTGACCTGCAGGGCC						
	510		520				
	700	710	720	730	740	750	760
inputs	CTGTCCTGGCCCCCTGGCAGAGCCTGACCCCTCCAGTGTGGCTCTGATGTCGGCTACGACAGATTGTTCT						
	530			540		550	
	770	780	790	800	810	820	830
inputs	GTATAAGGAGGGGGAAACGTGACTTCCTCCAGCGCCCTGGCAGCAGCCCCAGGCTGGGCTCTCCCAGGCC						
				CCAGCAG			
	840	850	860	870	880	890	900
inputs	AACTTCACCCCTGGGCCCTGTGAGCCCCCTCCCACGGGGCCAGTACAGGTGCTATGGTGACACACACCTCT						
	560					TACCT	
	910	920	930	940	950	960	970
inputs	CCTCCGAGTGGTCGGCCCCCAGCAGACCCCTGAACATCCTGATGGCAGGACAGATCTATGACACCGTCTC						
	570	580	590		GCT		TGTG
	600						
	980	990	1000	1010	1020	1030	1040
inputs	CCTGTCAGCACAGCCGGCCCCACAGTGGCCTCAGGAGAGAACGTGACCCCTGCTGTGTCAGTCATGGTGG						
	610	620			CCCAGC		CGGT
	630						
	1050	1060	1070	1080	1090	1100	1110
inputs	CAGTTTGACACTTCCTCTGACCAAAGAAGGGGGCAGCCCATCCCCACTGCGTCTGAGATCAATGTACG						
	640			650			TCG
	1120	1130	1140	1150	1160	1170	1180
inputs	GAGCTCATAGTACCAAGGCTGAATTCCCCATGAGTCCTGTGACCTCAGCCCACGGGGGACCTACAGGTG						
	660		670		680		690

FIG.3B



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inputs	1190	1200	1210	1220	1230	1240	1250	
	CTACGGCTCATACAGCTCCAACCCCCACCTGCTGTCTTCCCCAGTGAGCCCTGGAACTCATGGTCTCA							
	CGTCTCATTCA	CAAAC		AAAGTCTT	CACAA	CTGAGACT	TCT	
	700		710	720		730		
inputs	1260	1270	1280	1290	1300	1310	1320	
	GGACACTCTGGAGGCTCCAGCCTCCCACCCACAGGGCCGCCCTCACACCTGGTCTGGGAAGATACTGG							
	AGGAGTATC	ACCACCAAGTCCAAAGGA		GTCAGACTCTCCAG	CTGG			
	740		750	760	770			
inputs	1330	1340	1350	1360	1370	1380	1390	
	AGGTTTGATTGGGGCTCGGTGGCCTTCGTCTGCTGCTCTCCTCCTCTCCTCCGACG							
	TCCTGC			CCGCCAGTA	CTACACCAAGG			
	780		790		800			
inputs	1400	1410	1420	1430	1440	1450	1460	
	TCAGCGTCACAGCAAACACAGGACATCTGACCAGAGAAAGACTGATTCCAGCGTCTGCAGGGCTGCG							
	GCAAC	CTGGTC		CGGATAT	GCCTC	GGGGCTG		
	810		820		830			
inputs	1470	1480	1490	1500	1510	1520	1530	
	GAGACAGAGCCCAAGGACAGGGCCTGCTGAGGAGGTCCAGCCCAGCTGCTGACGTCCAGGAAGAAAACC							
	TGATCCTAATAA	TCTG	GCAGGGTTCTG	GCAGA	GGACTGG		C	
	840	850	860	870				
inputs	1540	1550	1560	1570	1580	1590	1600	
	TCTATGCTGCCGTGAAGGACACACAGTCTGAGG	ACAGGGTGGAGCTGGACAGT	CAGAGCCACACGAT					
	AC	AGCCG	GAGGAAGCGC	CTGCGGCACAGGG	GCAGGGCTGTG	CAGAGGCCGCT		
	880	890	900	910	920			
inputs	1610	1620	1630	1640	1650	1660	1670	
	GAAGACCCCCAGGCAGTGACGTATGCCCGGTGAAACACTCCAGTCCTAGGAGAGAAATGGCTCTCCTC							
	TCC		GCCCCCTG			CCGC	C	
	930					940		
inputs	1680	1690	1700	1710	1720	1730	1740	
	CCTCCTCACTGCTGGGAATTCTGGACACAAAGGACAGACAGGTGGAAGAGGACAGGCAGATGGACAC							
	CCTCC	CGCAGAC	CCGGAAATCA	CA	CGGG	GGTCAGG	ATGGA	
	950		960		970		980	
inputs	1750	1760	1770	1780	1790	1800	1810	
	TGAGGCTGCTGCATCTGAAGCCTCCCAGGATGTGACCTACGCCAGCTGCACAGCTGACCCCTAGACGG							
	GGC	CGAC	AGGATGTT		CACAGC		CG	
	990			1000				
inputs	1820	1830	1840	1850	1860	1870	1880	
	AAGGCAACTGAGCCTCCATCCCAGGAAGGGAACCTCCAGCTGAGCCCAGCATCTACGCCACTCTGG							
	CGGGTTATG			TTCA				
	1010							
inputs	1890							
	CCATCCAC							

FIG.3C



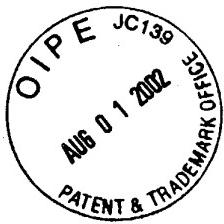
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	10	20	30	40	50	60	
inputs	MSPSPTALFCGLC LG-RVPAQSGPLPKPSLQALPSSLVPLEKPVTLRCQGPPGVDLYRLEKLSSS-----						
	10	20	30	40	50	60	70
	MTPALTALLCLGLSLGPRT RVQAGPFPKTLWAEPGSVISWGSPVTIWCQGSLEAQEYRLDKEGSPEPLD-----						
	10	20	30	40	50	60	70
	70	80	90	100	110	120	130
inputs	RYQ-----DQAVLFIPAMKRSLAGRYRC SYQNGSLWSLPSDQLELVATGVFAKPSLSAQPGPAVSSGGDV-----						
	80	90	100	110	120	130	140
	RNNPLEPKNKARFSIPS MTEHHAGRYRCHYSSAGWSEPSDPLELVMTGFYNKPTLSALPSPVVASGGNM-----						
	150	160	170	180	190	200	210
	TLRCGSQKG YHHFVL MKEGEHQLPRTLDSQLHSGGFQALFPVGPVNPSHRWRFTCYYYYMNTPQVWSHP-----						
	140	150					
inputs	-----GFDQFALYKEGDP-----						
	220	230	240	250	260	270	280
	SDPLEILPSGVSRKPSLLT LQGPVLAPGOSLT LQCGSDVG YDRFVLYKEGERDFLQRPGQQPQAGLSQAN-----						
	290	300	310	320	330	340	350
	FTLGPVSPSHGGQYRCYGAHNL SSEWSAPS DPLNILMAGQIYDTVSLAQP GPTVASGENVTLLCQSWWQ-----						
	160						
inputs	-----APYK-----NP-----ERW-----						
	360	370	380	390	400	410	420
	170	180	190	200			
inputs	-----YRASFPIITVTAHSGTYRCYSFSSRDPYLWSAPS DPLELVVTG-----						
	430	440	450	460	470	480	490
	210	220	230	240	250	260	
inputs	TSVTPSRLPTEPPSS-----VAEFSEATAELTVSFTNKVF-----TTETSR SITTSPKESD-----SPAGPA-----						
	500	510	520	530	540	550	560
	HSGGSSLPPSTPGPGLGRYLEVLIGVSVAFVLLL FLLL RRRQHSK HRTSDQRKTDFQRPAGAAE-----						
	270	280	290				
inputs	RQYYTKGNLVRICLGAVI-----IILAGFLAEDW-----HSRRKR-----						
	570	580	590	600	610	620	630
	TEPKDRG LLLRRSSPAAD VQEENLYAAVKDTQSED RVELDSQSPHD EDPQAVTYAPVKHSSPRREM ASPPS-----						
	300	310	320	330			
inputs	-----LRHRGRAVQ-----RPL-----PPLPPLPQTRK-----SHGGQDG GRQDVHSRG LC-----						
	570	580	590	600	610	620	630
inputs	S-----						

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FIG.4



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C0 C3 C2 C3 C4 C3 C5 C0 C2 C1 C3 C2

*->GesvtLtCsvsgfgppgvsvtWyfkngk.1gps11gysysrlesgek
+ vtl+C+ + v y + k ++ r++ +
hT268 41 EKPVTLRCQGP-----PGVDLY-RLEK1SSS-----RYQDQ-- 70

anlsegrfsiss1tLtissvekeDsGtYtCvv<-*
++L i +++ +G Y+C
hT268 71 -----AVLFIPAMKRSLAGRYRCSY 90

FIG.5A

*->GesvtLtCsvsgfgppgvsvtWyfkngk.1gps11gysysrlesgek
G++vtl+C+++ + ++ y k+g++ + y+++
hT268 127 GGDVTLQCQTR---YGFDQFALY-KEGDpAP-----YKNPERWYR-- 162

anlsegrfsiss1tLtissvekeDsGtYtCvv<-*
++++i+++v++ sGtY+C
hT268 163 -----ASFPIITVTAHSGTYRCYS 182

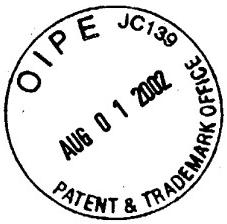
FIG.5B



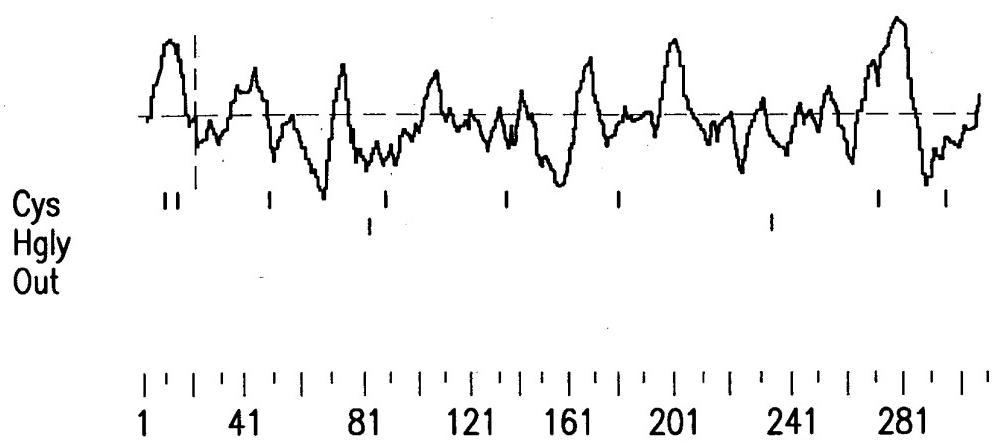
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ПОДАЧА ГИДРОСИГНАЛА

FIG. 6



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MSPASPTFFCIGLCVLQVIQTQSGPLPKPSLQAQPSSLVPLGQSVILRCQGPPDVLYRL
EKLKPEKYEDQDFLF IPTMERSNAGRYRCSYQNGSHWSLPSDQLEIATGVYAKPSLSAH
PSSAVPQGRDVTLKCQSPYSFDEFVLYKEGDTGPYKRPEKWYRANFPIITVTAHSGTYR
CYSFSSSSPYLWSAPSDPLVLVVTGLSATPSQVPTEESFPTESSRRPSILPTNKISTTE
KPMNITASPEGLSPPIGFAHQHYAKGNLVRICLGATIIIIILLGLLAEDWHSRKKCLQHRM
RALQRPLPPLPLA

FIG. 7



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10 20 30 40 50 60 70
 inputs ATGACGCCCGCCCTCACAGCCCTGCTCTGCCTTGGGCTGAGTCTGGGCCCCAGGACCCGGTGCAGGCAG
 ::::: ::::: ::::: ::::: ::::: :::::
 ATGTCTCCAGCC-TCAC--CC---ACTTTCTT---CTGTAT--
 10 20 30

 80 90 100 110 120 130 140
 inputs GGCCCTTCCC AAACCCACCCTCTGGGCTGAGCCAGGCTCTGTGATCAGCTGGGGAGCCCCGTGACCAT
 ::::::: :::::::
 -TGGGCTG-----TGTGTACTGC-----
 40

 150 160 170 180 190 200 210
 inputs CTGGTGTCA GGGGAGCCTGGAGGCC CAGGAGTACCGACTGGATAAAGAGGGAAAGGCCAGAGCCCTGGAC
 ::::::: ::::::: :::::
 -AAGTGATCC-----AACACAGAG-----TGG--
 50 60 70

 220 230 240 250 260 270 280
 inputs AGAAATAACCCACTGGAACCC AAGAACAGGCCAGATTCTCCATCCCATCCATGACAGAGCACCATGCGG
 ::::::: ::::: :::::
 -CCCACT-----CCC-----CAAG-----CCTTCCC-TCCAGG-----
 80 90

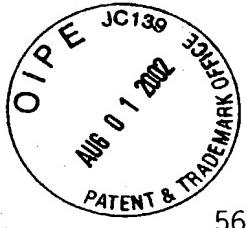
 290 300 310 320 330 340 350
 inputs GGAGATACCGCTGCCACTATTACAGCTCTGCAGGCTGGTCAGAGCCCAGCGACCCCCCTGGAGCTGGTGAT
 ::::::: ::::::: ::::: ::::::: :::::
 -CTCAGCC-----CAGTCCCTG-GTACCCCTGGGTCA-----
 100 110 120

 360 370 380 390 400 410 420
 inputs GACAGGATTCTACAACAAACCCACCC TCA GCCCTGCCAGCCCTGTGGTGGCCTCAGGGGGAAATATG
 ::::: ::::: :::::
 -TCAG- TTATTC-----TGAGGTG-C-CAGGGA-----
 130 140 150

 430 440 450 460 470 480
 inputs ACCCTCC-GATGTGGCTCACAGAAGGGATATCACCATTTGTTCTGATGAAGGAAGGAGAACACCAGCTC
 ::::::: ::::::: ::::::: ::::::: :::::::
 -CCTCCAGATGTGG-----ATTTATATGCCCTGGAGAAACTGAAA-----
 160 170 180 190

 490 500 510 520 530 540 550
 inputs CCCCGGACCC TGGACTCACAGCAGCTCCACAGTGGGGGTTCCAGGCCCTGTTCCCTGTGGGCCCCGTGA
 ::::::: ::::: ::::::: ::::::: ::::::: :::::
 -CCGGA-----GA-----AGTATGAAGATCAAGAC-----TTTCTCT-----CATT-----
 200 210 220

FIG. 8A



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560 570 580 590 600 610 620
 inputs ACCCCAGCCACAGGTGGAGGTTCACATGCTATTACTATTATGAACACCCCCCAGGTGTGGTCCCACCC
 :::::::::::::::::::: :::::: : :::::
 ---CCAACCATGGAAAGAAGTA---ATGCT-----GGAC-----GGTAT-----
 230 240 250 260

 630 640 650 660 670 680 690
 inputs CAGTGACCCCTGGAGATTCTGCCCTCAGCGTGTCTAGGAAGCCCTCCCTGACCTGCAAGGGCCCT
 ::::: : :: . :::::: ..::: ::::: :::::
 CGATG---CTTTA-----TCAGA-----ATGGGAGTC-----ACTGGTCTCT
 270 280 290

 700 710 720 730 740 750 760
 inputs GTCCTGGCCCCCTGGGCAGAGCCTGACCCCTCCAGTGTGGCTCTGATGTCGGCTACGACAGATTGTTCTGT
 :::::: :::::: : ::::: ::::: :::::
 ---CCCAAG-----TGACCAGCTTGAG-----CTAATT---GCTAC-----
 300 310 320

 770 780 790 800 810 820 830
 inputs ATAAGGAGGGGAAACGTGACTTCCTCCAGCGCCCTGGCCAGCAGCCCCAGGCTGGCTCTCCAGGCCAA
 ::::: : :: . ::::: :::::
 ---AGGTGTGTATGCTAACACCTC-----ACTCTC-----
 330 340 350

 840 850 860 870 880 890 900
 inputs CTTCACCCCTGGGCCCTGTGAGCCCCCTCCACGGGGGCCAGTACAGGTGCTATGGTGACACAAACCTCTCC
 ::::: ::::: :::::
 ---AGCTCATCCCA-----GCT-----
 360

 910 920 930 940 950 960 970
 inputs TCCGAGTGGTCGGCCCCCAGCGACCCCTGAACATCCTGATGGCAGGACAGATCTATGACACCGTCTCCC
 :::::: :::: : :::::: ::::: :::::
 ---CAGCAGTCCC-----TC---AAGGCAGG---GAT---GTGACTCTGA-----
 370 380 390 400

 980 990 1000 1010 1020 1030 1040
 inputs TGTCAGCACAGCCGGGCCCCACAGTGGCCTCAGGAGAGAACGTGACCCCTGCTGTCAAGTCATGGTGGCA
 ::: :::::: ::::: :::::
 AGT-----GCCAGAGCCATA-----CAGTTTGTGA-----
 410 420

 1050 1060 1070 1080 1090 1100 1110
 inputs GTTGACACTTCCTCTGACCAAAGAAGGGCAGCCCATCCCCACTGCGTCTGAGATCAATGTACGGA
 ::::: ::::::: ::::::: ::::::: ::::: :::::
 ---ATTCGTTCTATACAAAGAAGGGG-----AT-----ACTGGGCCTTATA---AGAGACCTGA-----
 430 440 450 460 470

FIG. 8B



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1120 1130 1140 1150 1160 1170 1180
 inputs GCTCATAGTACCAAGGGCTGAATTCCCCATGAGTCCTGTGACCTCAGCCCACGCCGGGACCTACAGGTGCT
 : : : : : :
 G--AAATGGTACCGGGCCAATTCCCCATCATCACAGTGACTGCTGCTCACAGTGGGACGTACCGGTGTT
 480 490 500 510 520 530 540

1190 1200 1210 1220 1230 1240 1250
 inputs ACGGCTCATACAGCTCCAACCCCCACCTGCTGCTTCCCCAGTGAGGCCCTGGAACCTCATGGTCTCAGG
 : : : : : :
 ACAGCTTCTCCAGCTCATCTCCATACCTGTTGAGCCCCAGTGACCCCTCTAGTGCTTGTGGTTACTGG
 550 560 570 580 590 600 610

1260 1270 1280 1290 1300 1310 1320
 inputs ACACTCTGGAGGCTCCAGCCTCCCACCCACAGGGCCGCCCTCACACCTGGTCTGGGAAGATACTGGAG
 : : : : : :
 ACTCTCTG----CCA--CTCCCAGCC--AGGT--ACCCAC----GGA--AGAATCATTTCTG---
 620 630 640 650 660

1330 1340 1350 1360 1370 1380 1390
 inputs GTTTTGATTGGGGTCTCGGTGGCCTCGTCTGCTGCTTCCCTCCCTCTTCCCTCCCTCGACGTC
 : : : : : :
 ---TGA-----CAGAACCTT---CCAGGAGACCTTCCA---TCTTAC---CCACAAACAAA
 670 680 690 700

1400 1410 1420 1430 1440 1450 1460
 inputs AGCGTCACAGCAAACACAGGACATCTGACCAGAGAAAGACTGATTTCCAGCGTCTGCAGGGCTCGGA
 : : : : : :
 A---TATCTACAA---CTGAA---AAGCCTATGAATATC---ACTGCCT-C-TCCAG-AGGGGCTG---
 710 720 730 740 750

1470 1480 1490 1500 1510 1520 1530
 inputs GACAGAGCCCAAGGACAGGGCCTGCTGAGGAGGTCCAGCCCAGCTGTCAGTCCAGGAAGAAAACCTC
 : : : : : :
 ---AGCCCT---CC---AATTGGTTTGCTCATCAGCA-----C
 760 770 780

1540 1550 1560 1570 1580 1590 1600
 inputs TATGCTGCCGTGAAGGACACACAGTCTGAGGACAGGGTGGAGCTGGACAGTCAGAGCCCACACGATGAAG
 : : : : : :
 TATGC-----CAAGGGGAATCTGGTC-----CGGATATG
 790 800 810

1610 1620 1630 1640 1650 1660 1670
 inputs ACCCCCCAGGCAGTGACGTATGCCCGGTGAAACACTCCAGTCCTAGGAGAGAAATGGCCTCTCCCTC
 : : : : : :
 ---CCTTGG-----TGCCACGAT-----TATAATAATTGT-----
 820 830 840

1680 1690 1700 1710 1720 1730 1740
 inputs CTCACTGTCTGGGAATTCTGGACACAAAGGACAGACAGGTGGAAGAGGGACAGGCAGATGGACACTGAG
 : : : : : :
 ---TGGGGCTT---CTAG---CAGAGGATTGGC-----ACAGTCGGAAGAA---AT
 850 860 870 880

FIG.8C



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1750	1760	1770	1780	1790	1800	1810
inputs GCTGCTGCATCTGAAGCCTCCCAGGATGTGACCTACGCCAGCTGCACAGCTTGACCCTAGACGGAAGG						
:: :::::::	:::::::	:::::::	:::::::	::: ..	:::::	:::::
GC--CTGCAACA-----	CAGGATGAGA-----			GCTTTGC-----		AAAGG
890		900			910	
1820	1830	1840	1850	1860	1870	1880
inputs CAACTGAGCCTCCTCCATCCCAGGAAGGGGAACCTCCAGCTGAGCCCAGCATCTACGCCACTCTGGCCAT						
::: .	::: .	::: .	::: .	::: .	::: .	::: .
CCACTA-----	CCACC-----	CCTCC-----			CACTGGCC--	
920		930				
1890						
inputs CCAC						

FIG. 8D



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inputs	10	20	30	40	50	60	
	MSPASPTFFCIGLCVLQVIQTQSGPLPKPSLQAQPSSLVPLGQSILRCQGPPDVLDYRLEKL-KPEKYE	
	
	MTPALTALLCLGLSLGPRTTRVQAGPFPKPTLWAEPGSVISWGSPVTIWCQGSLEAQEYRLDKEGSPEPLD	10	20	30	40	50	60
	.....	.....	.....	.....	.....	.....	70
	
inputs	70	80	90	100	110	120	130
	DQDFL-----F-IPTMERSNAGRYSQNGSHWSLPSDQLELIATGVYAKPSLSAHPSSAVPQGRDV	.....	.....	.....	.....	.....
	
	RNNPLEPKNKARFSIPSMEHHAGRYRCHYYSSAGWSEPSDPLELVMTGFYNKPILSALPSPVVASGGNM	80	90	100	110	120	130
	.....	.....	.....	.....	.....	.....	140
	
inputs	150	160	170	180	190	200	210
	TLKCGSQKGYHHFVLMKEGEHQLPRTLDSQQLHSGGFQALFPVGPVNPSHRWRFTCYYYYMNTPQVWSHP	.....	.....	.....	.....	.....
	
inputs	220	230	240	250	260	270	280
	SFDEFVLYKEGD-----	140	150	.....	.....	.....	160
	
inputs	290	300	310	320	330	340	350
	TGPyK-----RP-----EKW-----	170	180	190	200	.....	.....
	
	FTLGPVSPSHGGQYRCYGAHNLSEWSAPSPLNILMAGQIYDTVSLSAQPGPTVASGENVTLLCQSWWQ	.....	.....	.....	.....	.....
	
inputs	360	370	380	390	400	410	420
	YRANFPIITVTAHSGTYRCYSFSSSSPYLWSAPSPLVLVVTG	170	180	190	200	.....	160
	
inputs	430	440	450	460	470	480	490
	FDTFLLTKEGAAHPPLRLRSMYGAHKYQAEFPMSPVTSAGHTYRCYGSYSSNPHLLSFPEPLELMVSG	210	220	.....	.....	.....	.....
	
inputs	500	510	520	530	540	550	560
	LSATPSQVPTEES-----FPV-----	230	240	250	260	270	
	
	HSGGSSLPPGTGPSTPGLGRYLEVLIGVSVAFVLLFLLLFLRRQRHSKHRTSDQRKTDFQRPAAGAAE	280	290	300	310		
	
input	570	580	590	600	610	620	630
	TEPKDRGLLRRSSPAADVQEENLYAAVKDTQSEDREVLDQSPhDEDPQAVTYAPVKHSSPRREMAsPPS	TESS-----RRPS-----ILPTNKISTTEKPMNI-TASPEGLSP-PIGFAH-QHYAKGNLVR--I	230	240	250	260	
	
	500	510	520	530	540	550	560
inputs	570	580	590	600	610	620	630
	CLGATIIIIILLGLLAEDWH-----SRKKCLQHRMRALQRPL-----PP-----LPL	280	290	300	310	.....
	
	SLSGEFLDTKDRQVEEDRQMDTEAAASEASQDVTYAQLHSLLRKRATEPPPSQEGEPPAEPSIYATLAI	570	580	590	600	610	620

inputs A

H

FIG. 9



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09829495 080102

*->GesvtLtCsvsgfgppgvsvtWyfkngk.lgpsllgysysrlesgek
G+sv L+C+ ++v y + k ++ +++e +
mT268 42 GQSVILRCQGP-----PDVDLY-RLEK1KP-----EKYEDQ-- 71

anlseggrfsissltLtissvekeDsGtYtCvv<-*
L i + e++++G Y+C
mT268 72 -----DFLF IPTMERSNAGRYRCSY 91

FIG.10A

*->GesvtLtCsvsgfgppgvsvtWyfkngk.lgpsllgysysrlesgek
G +vtL C++ ++ y k+g++ + Y+r+e +
mT268 128 GRDVTLCQSP---YSFDEFVLY-KEGDTGP-----YKRPEKW-Y 162

anlseggrfsissltLtissvekeDsGtYtCvv<-*
+ ++i++v++ SGtY+C
mT268 163 RA-----NFPIITVTAHSGTYRCYS 183

FIG.10B



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	10	20	30	40	50	60	
inputs	<u>MSPSPTALFCGLCIGRV-PAQSGPLPKPSLQALPSSLVPLEKPVTLRCQGPPGV</u> <u>DLYRLEKLSSRYQD</u>						

	<u>MSPASPTFFCIGLCVLQVIQTQSGPLPKPSLQAQPSSLVPLGQSVILRCQGPPDV</u> <u>DLYRLEKLKPEKYED</u>						
	10	20	30	40	50	60	70
	70	80	90	100	110	120	130
inputs	<u>QAVLFIPAMKRSLAGRYRCSYQNGSLWSLPSDQLELVATGVFAKPSLSAQPGPAV</u> <u>SSGGDVTLCQCTRYG</u>						

	<u>QDFLFIPTMERSNAGRYRCSYQNGSHWSLPSDQLELIATGVYAKPSLSAHPSAVP</u> <u>QGRDVTLCQSPYS</u>						
	80	90	100	110	120	130	140
	140	150	160	170	180	190	200
inputs	<u>FDQFALYKEGDPAPYKNPERWYRASFPIITVTAAMSGTYRCYSFSSRDPYLW</u> <u>SAPSDPLELVVGTTSVTP</u>						

	<u>FDEFVLYKEGDTGPYKRPEKWYRANFPIITVTAHSGTYRCYSFSSSPYLW</u> <u>SAPSDPLVLVVTLSATP</u>						
	150	160	170	180	190	200	210
	210	220	230	240	250	260	270
inputs	<u>SRLPTEPPSSVAEFSSEATAELTVSFTNKVF</u> <u>TETRSRSITTSPKESDSPAGPARQYYTKGNLVRICLGAVI</u>						

	<u>SQVPTEESFPVTESSRRPSILP--TNKISTTEKPMNITASPEGLSPPIGFAH</u> <u>QHYAKGNLVRICLGATI</u>						
	220	230	240	250	260	270	
	280	290	300	310	320	330	
inputs	<u>IIILLAGFLAEDWHSRRKRLHRGRAVQRPLPPLPQTRKSHGGQDGGRQDVHSRGLCS</u>						
	
	<u>IIILLGLLAEDWHSRKCLQHMRMALQRPLPPLP-LA-----</u>						
	280	290	300	310			

FIG.11

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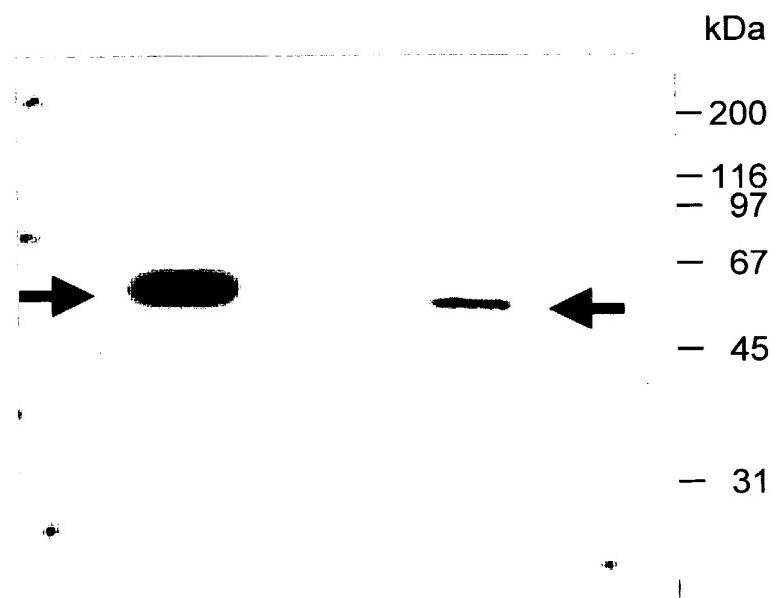


FIG. 12

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Inventor(s): BUSFIELD ET AL.
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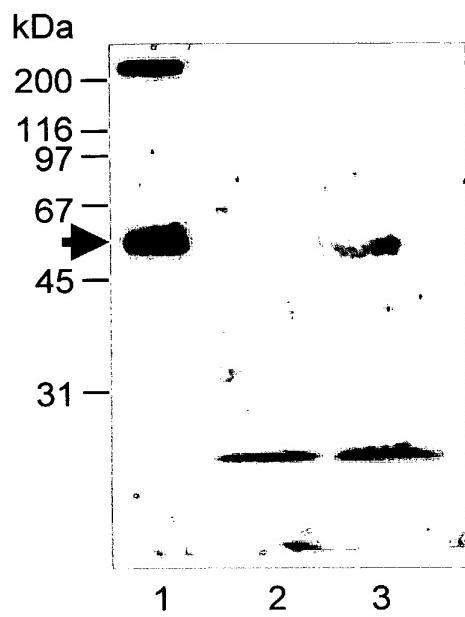


FIG. 13A

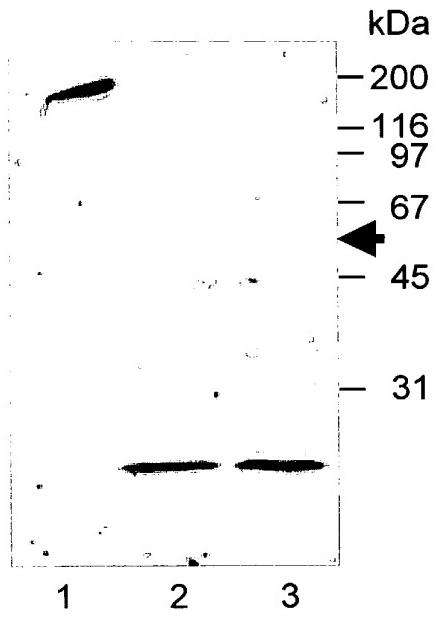


FIG. 13B

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FIG.14A

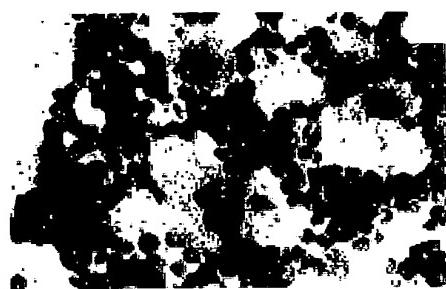


FIG.14B

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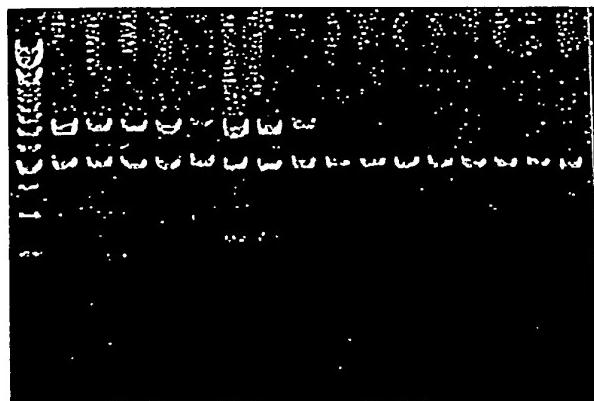


FIG.14C

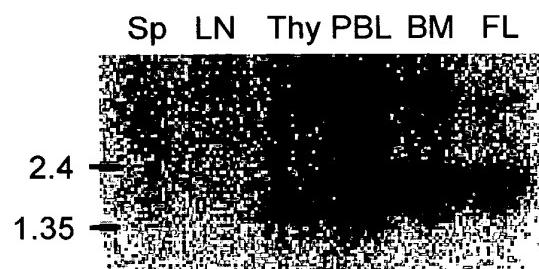


FIG.14D

00 02 03 04 05 06 07 08 09

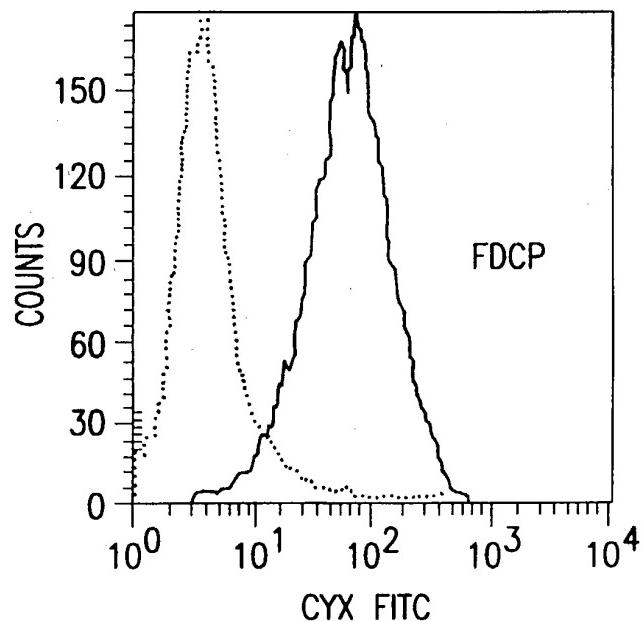


FIG.15A

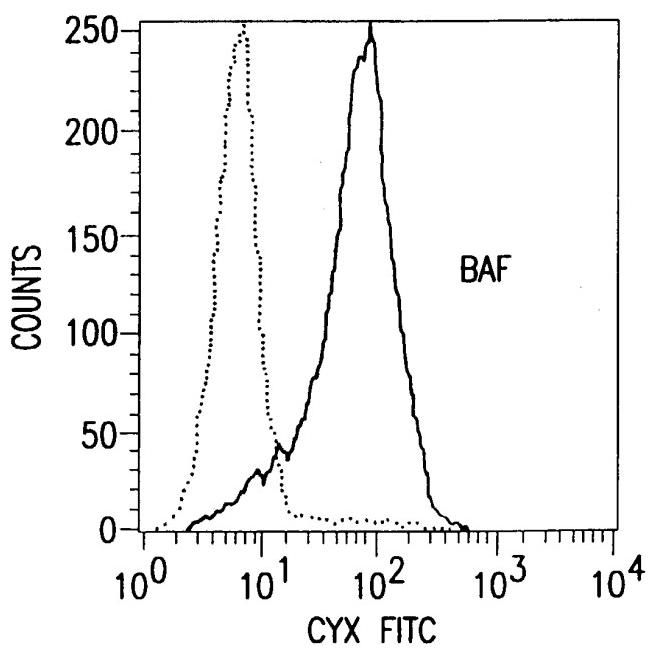


FIG.15B

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0 0 0 0 0 0 0 0 0 0 0 0

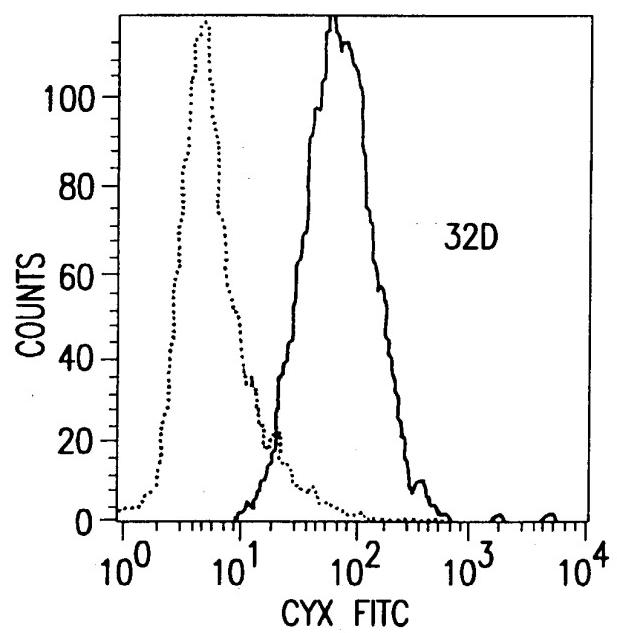


FIG.15C



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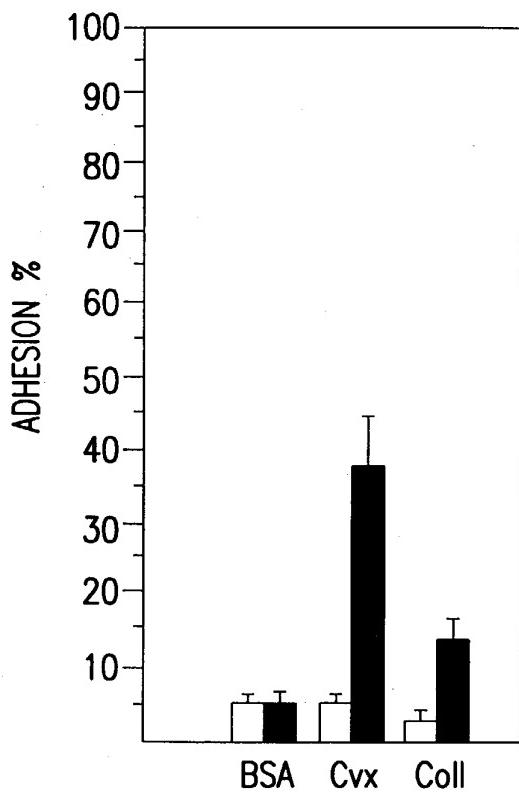


FIG.16A

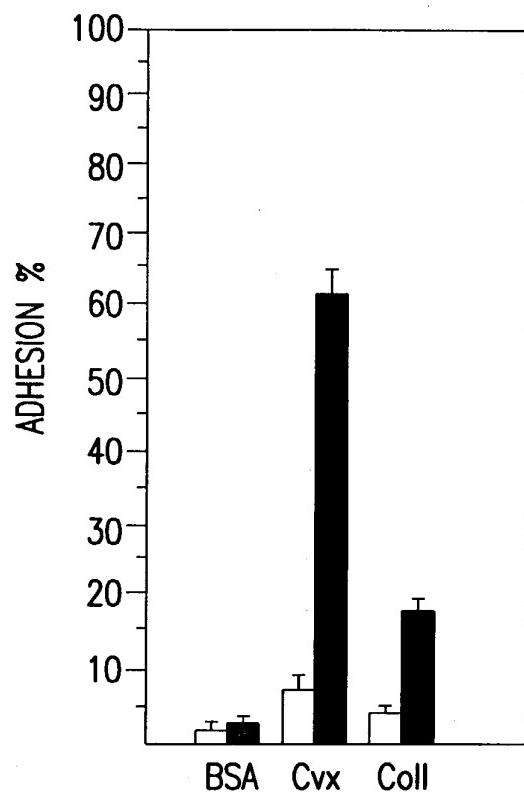


FIG.16B

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08/01/02

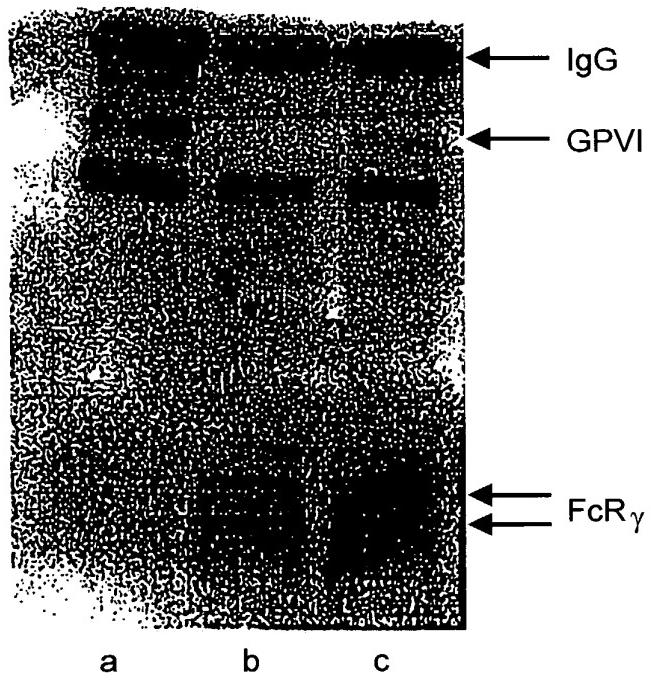


FIG. 17



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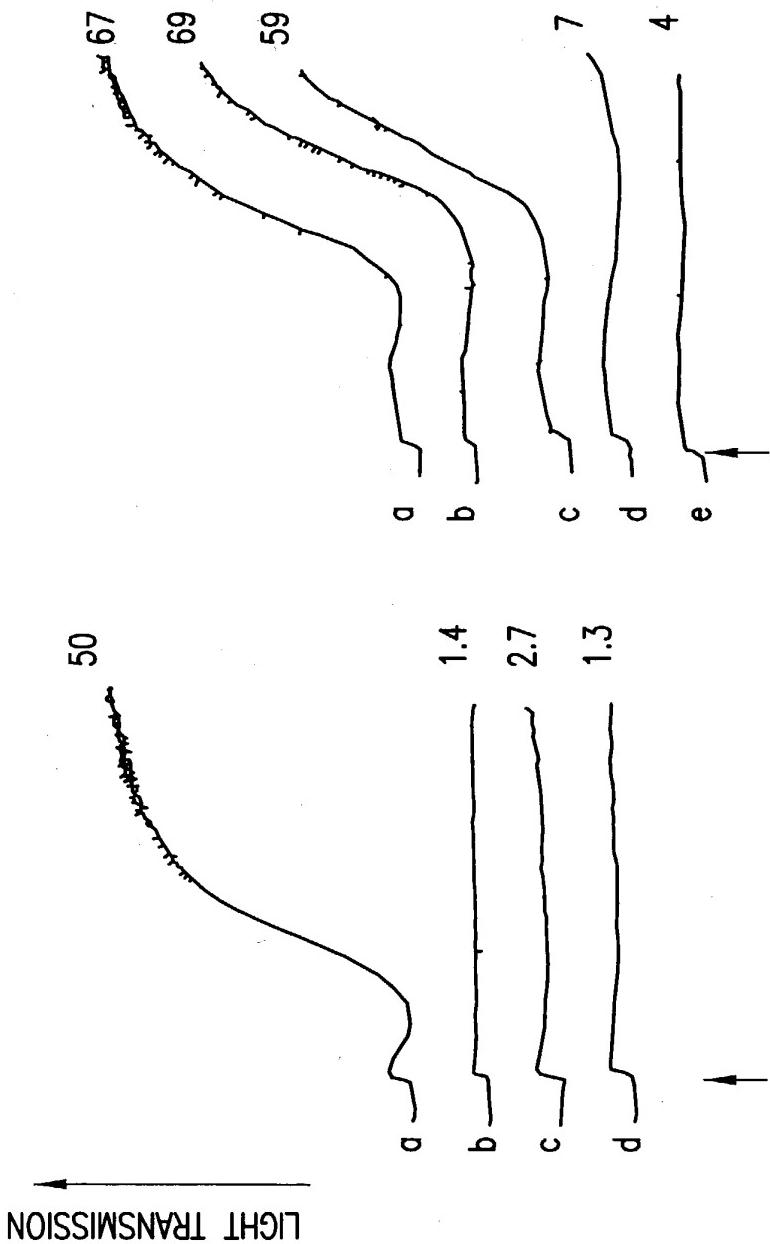


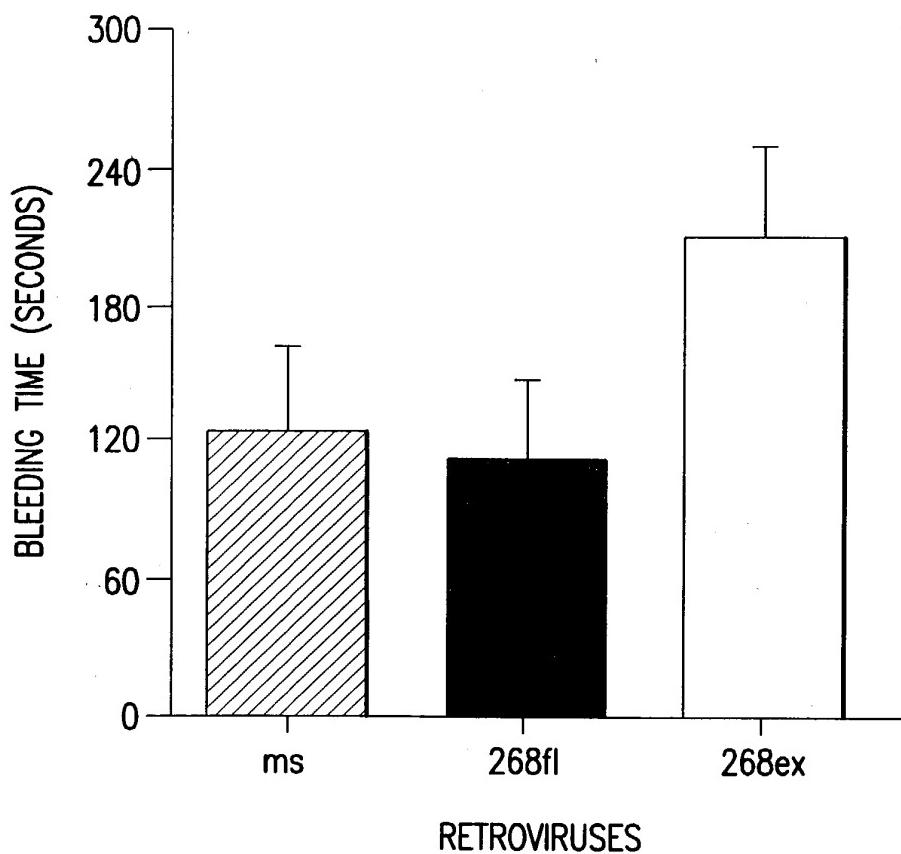
FIG. 18B

FIG. 18A



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RETROVIRUSES

FIG.19



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EFFETS DES MONOCLONAUX SUR LA LIASION
GPVI-Fc/coll TYPE 1

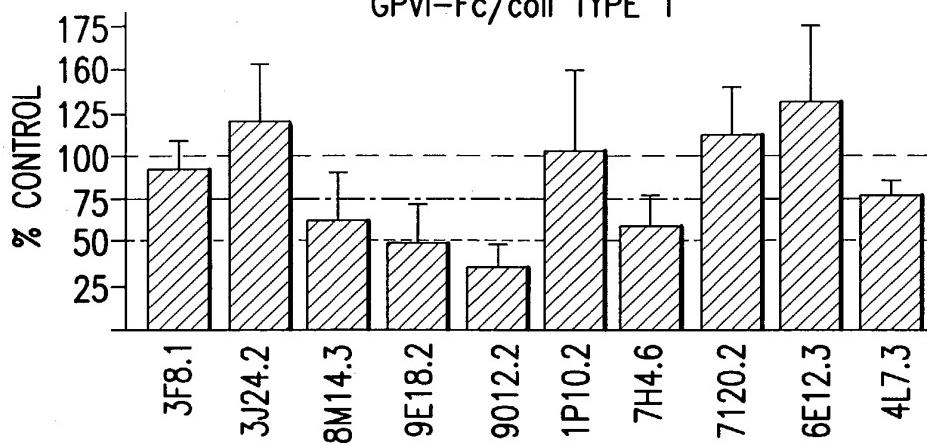


FIG.20



EFFET DES MONOCLONAUX SUR LA LIAISON
GPVI-Fc/CONVULXINE

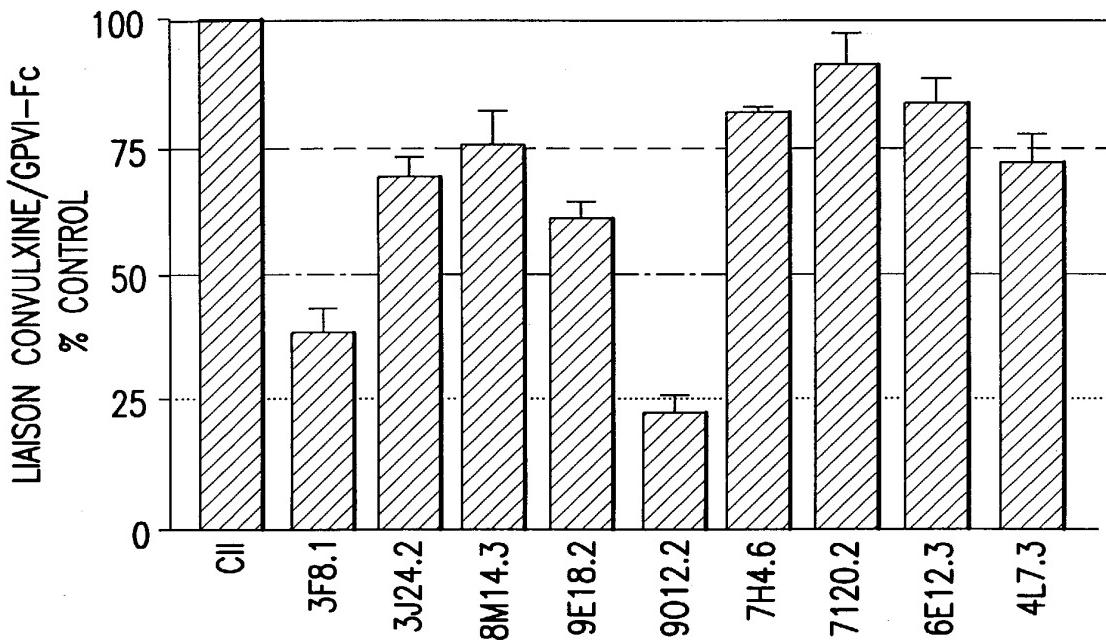


FIG.21



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Inventor(s): BUSFIELD ET AL.
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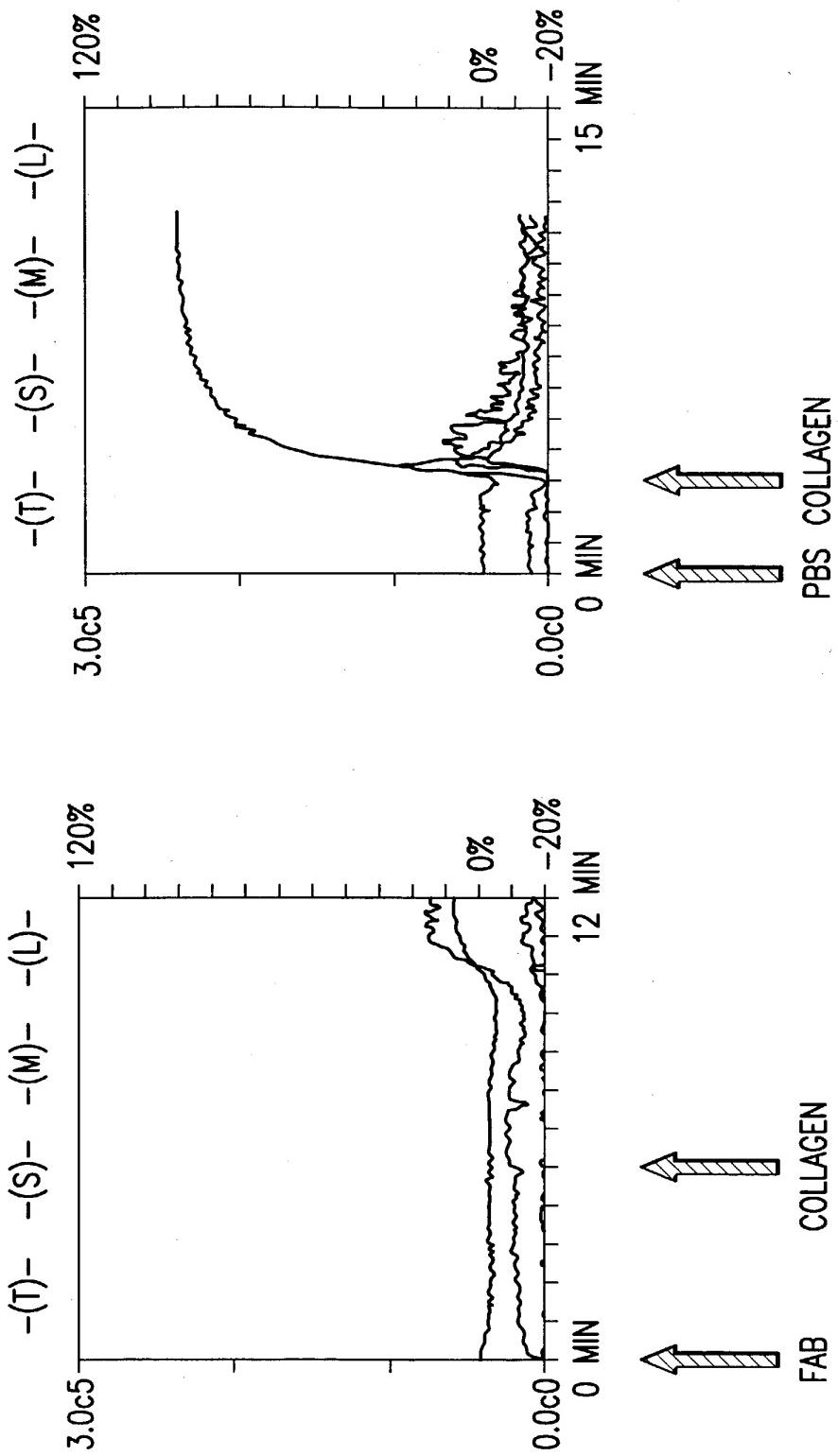


FIG. 22



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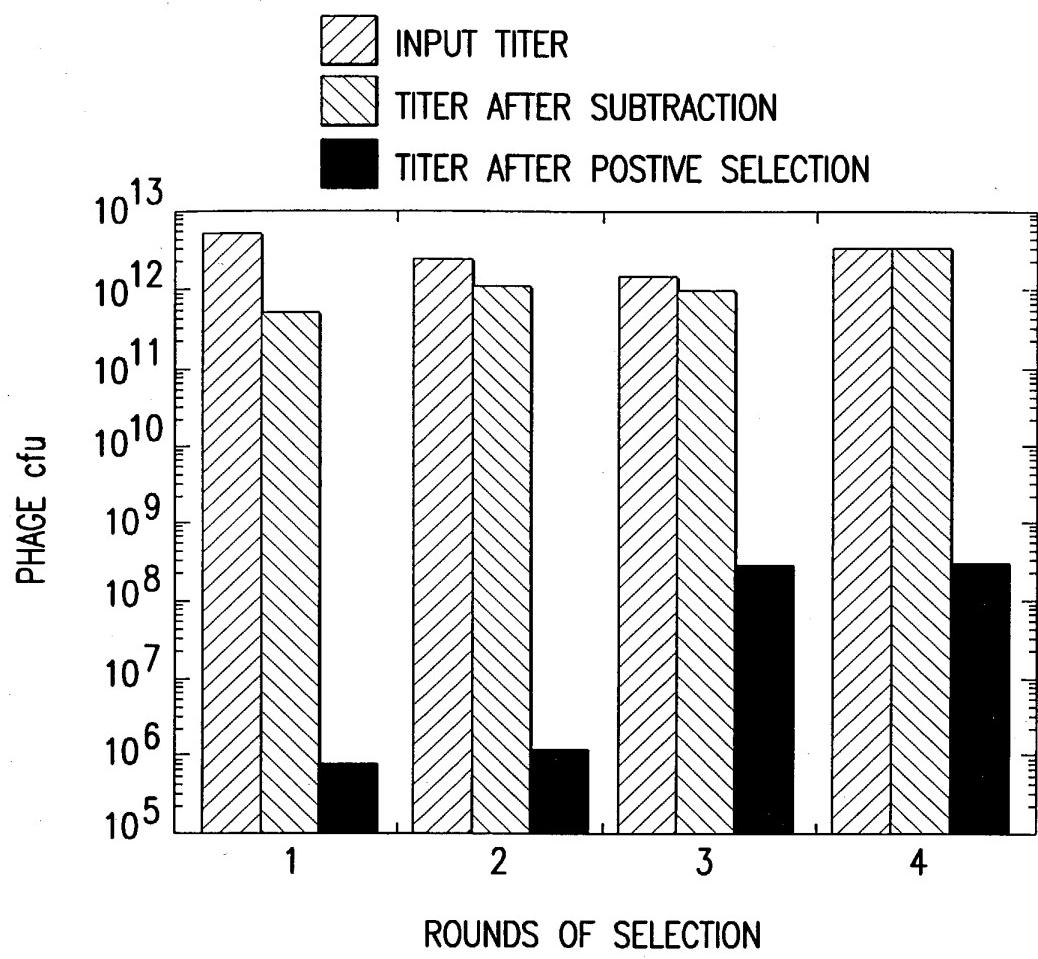


FIG.23



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Inventor(s): BUSFIELD ET AL.
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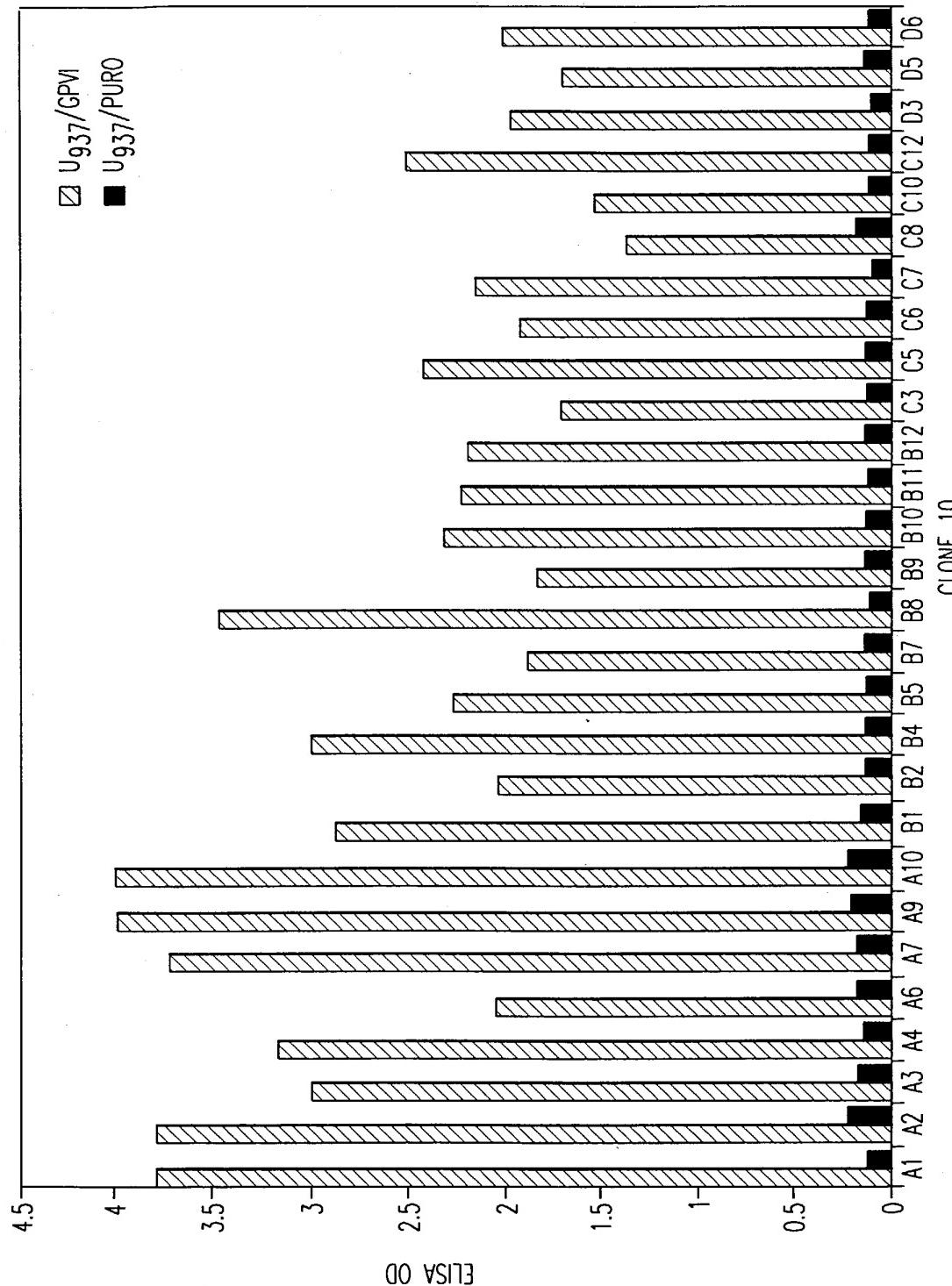


FIG. 24A



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0036234435 08010E

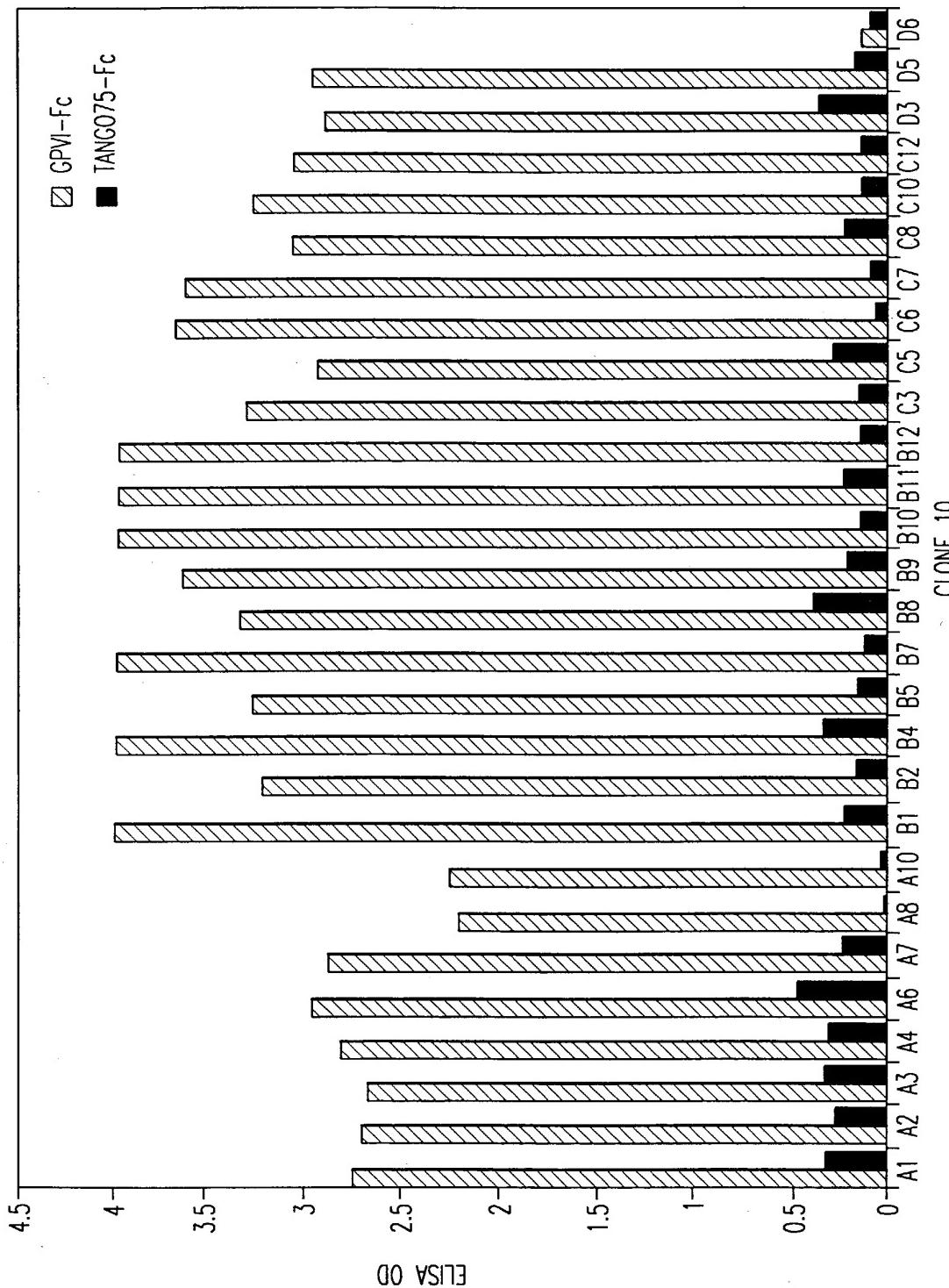


FIG. 24B

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Inventor(s): BUSFIELD ET AL.
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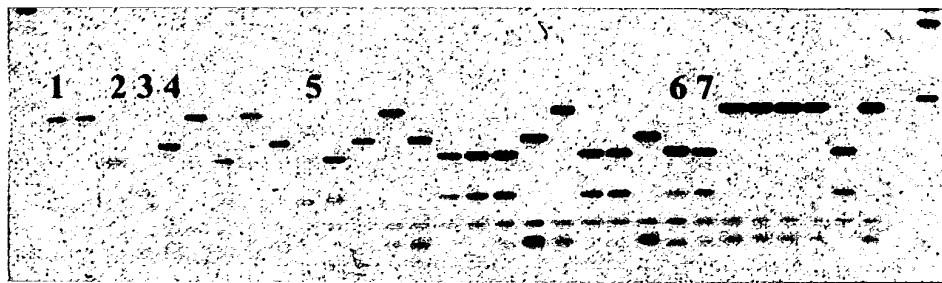


FIG. 25



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100 101 102 103 104

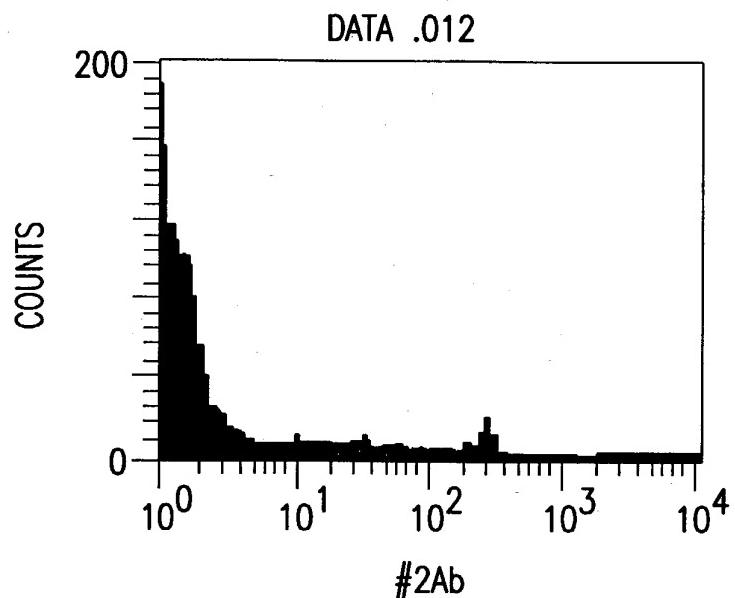


FIG.26A

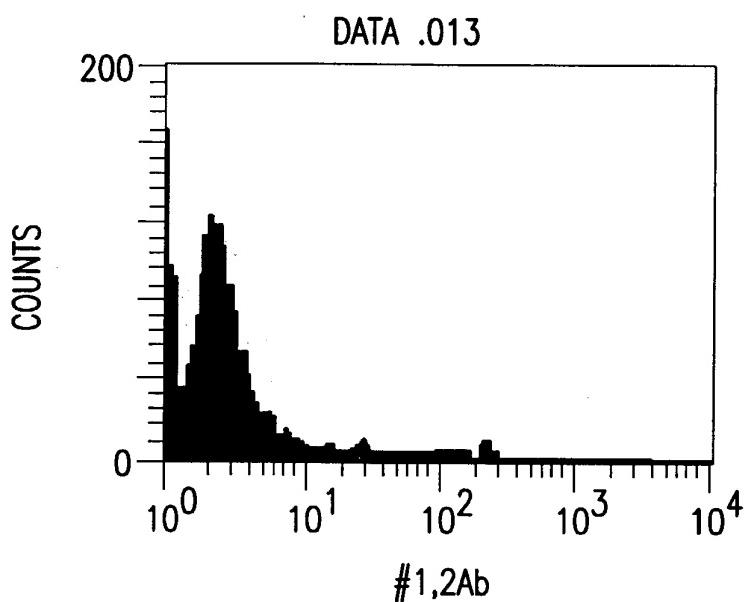


FIG.26B



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Inventor(s): BUSFIELD ET AL.
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007 023 033 043 053 063 073 083

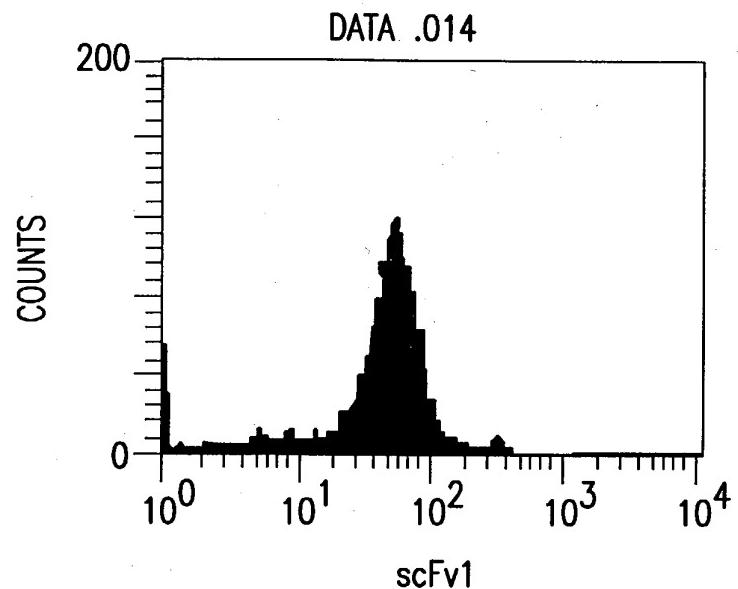


FIG.26C

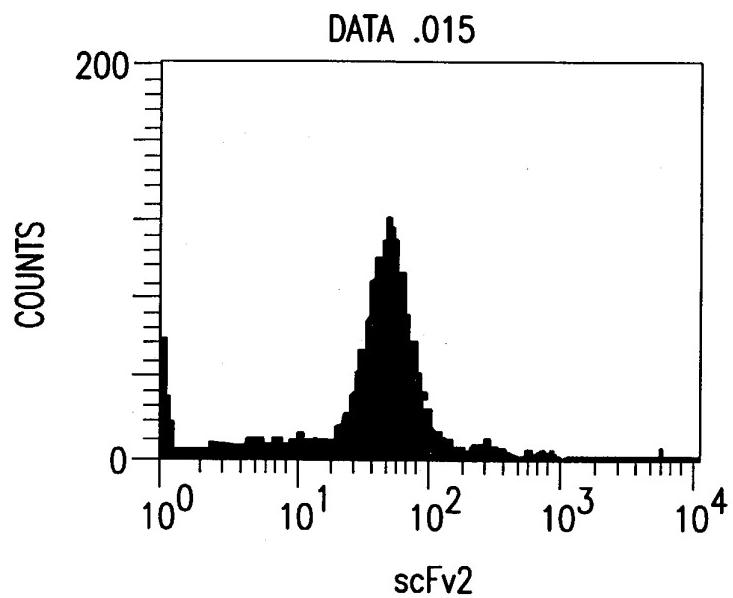


FIG.26D

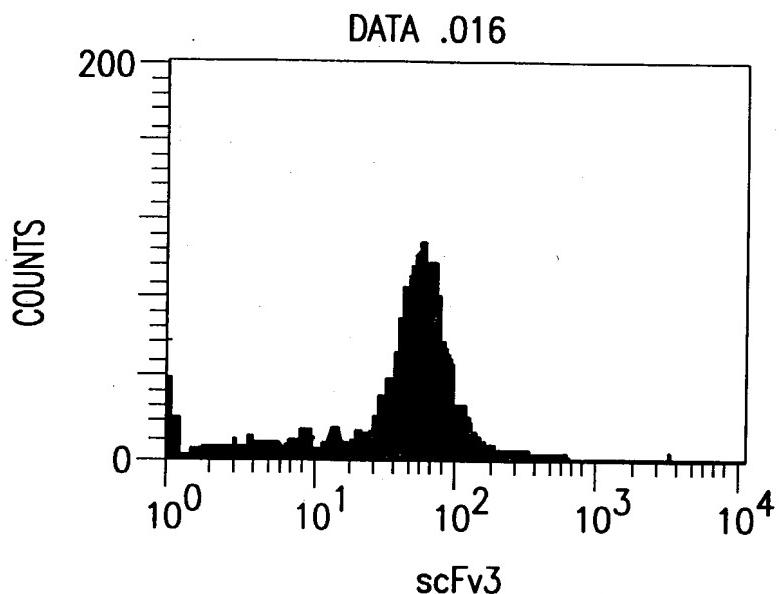


FIG.26E

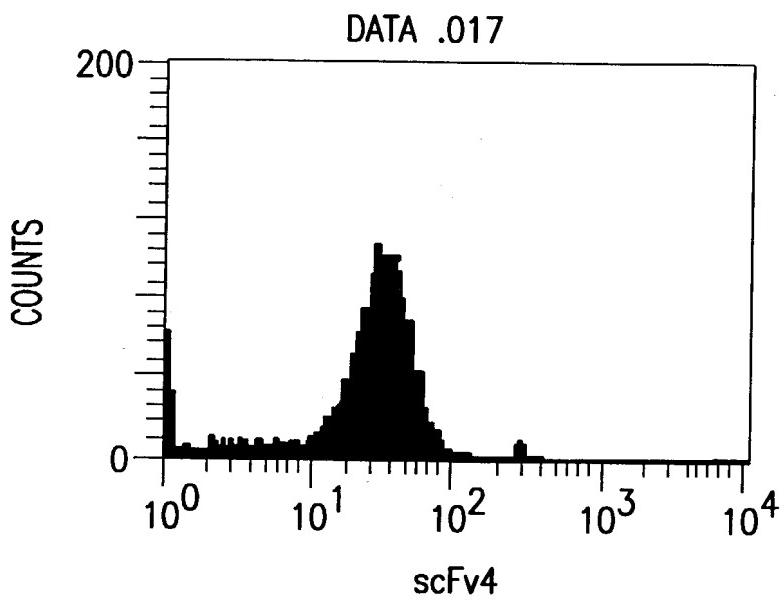


FIG.26F



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Inventor(s): BUSFIELD ET AL.
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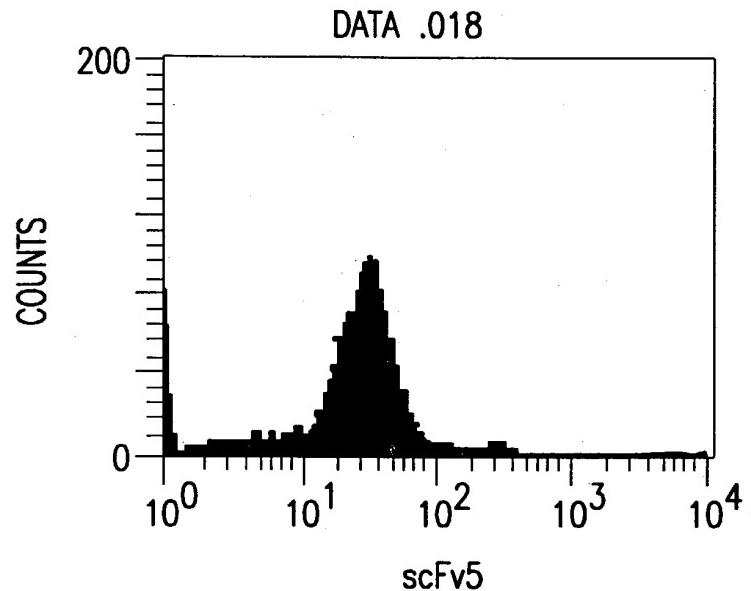


FIG.26G

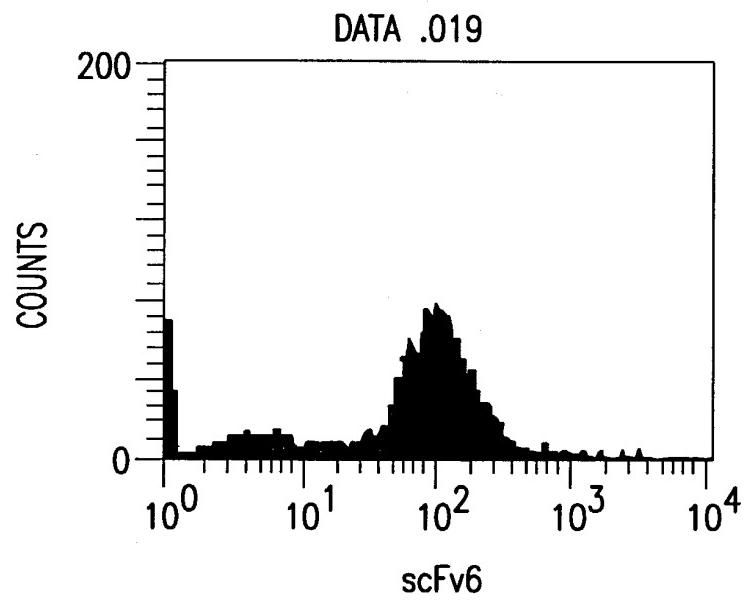
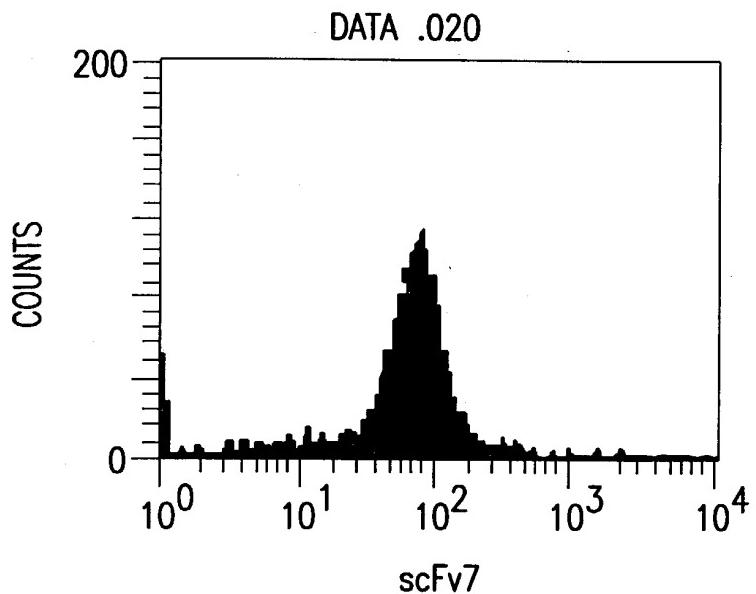


FIG.26H



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Inventor(s): BUSFIELD ET AL.
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002 022 044 035 003 011 032



scFv1:A4
scFv2:B4
scFv3:A9
scFv4:C4
scFv5:C9
scFv6:C10
scFv7:A10

FIG.26I

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Inventor(s): BUSFIELD ET AL.
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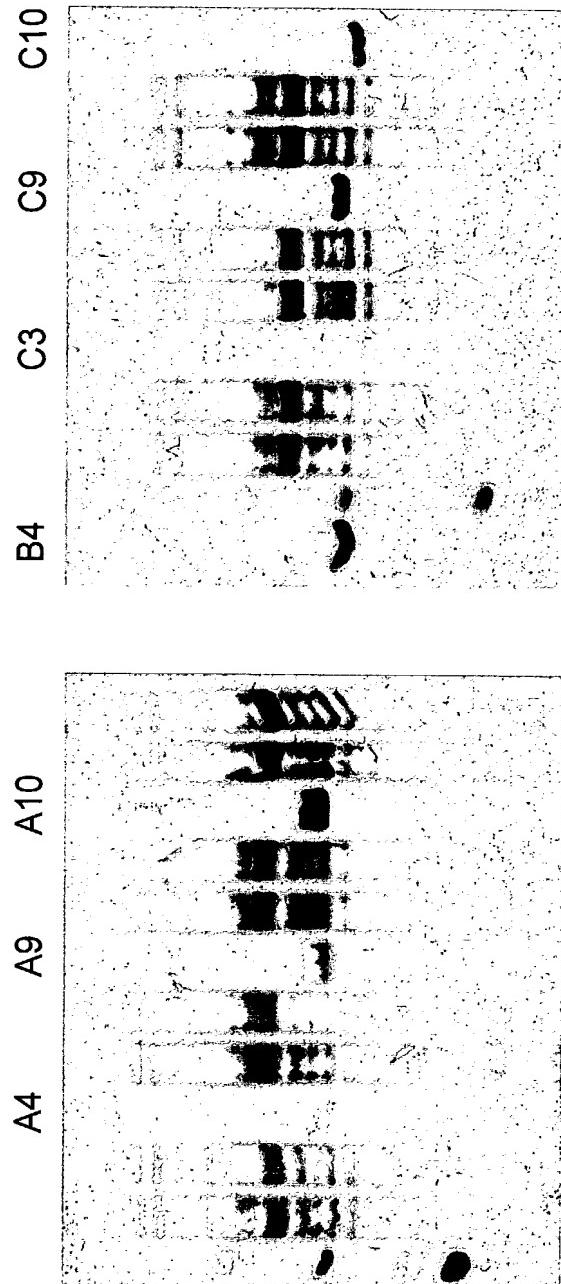
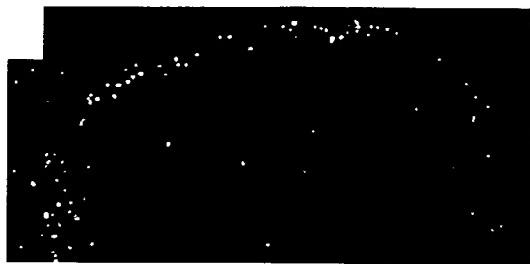


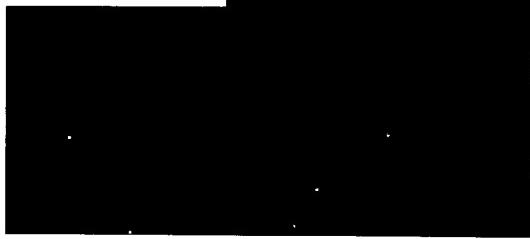
FIG. 27

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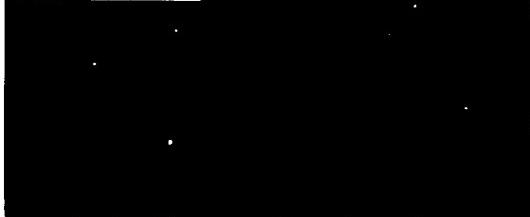
Docket No.: 7853-234-999
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Inventor(s): BUSFIELD ET AL.
Title: "GLYCOPROTEIN VI AND USES THEREOF"



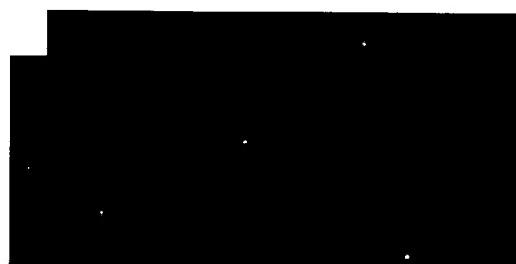
control scFv



scFv/A9



scFv/C3



scFv/A4



scFv/A10



scFv/C9

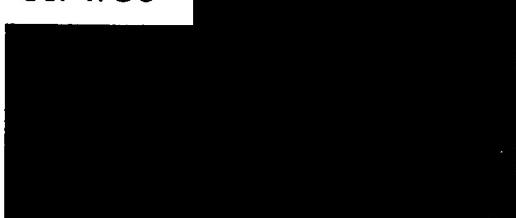


FIG.28A

FIG.28B



Docket No.: 7853-234-999
Serial No.: 09/829,495
Inventor(s): BUSFIELD ET AL.
Title: "GLYCOPROTEIN VI AND USES THEREOF"

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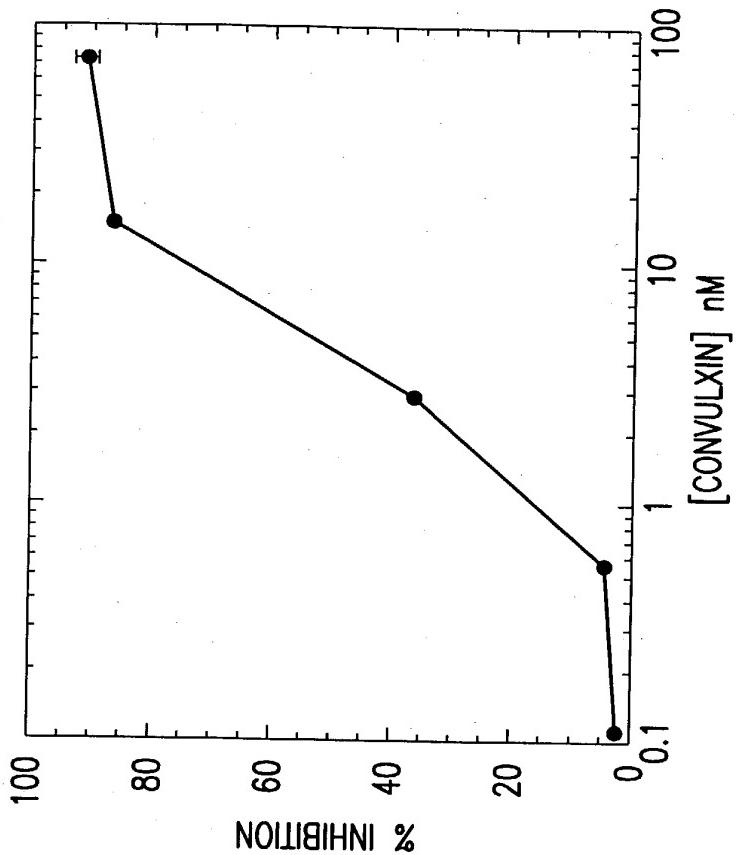


FIG.29B

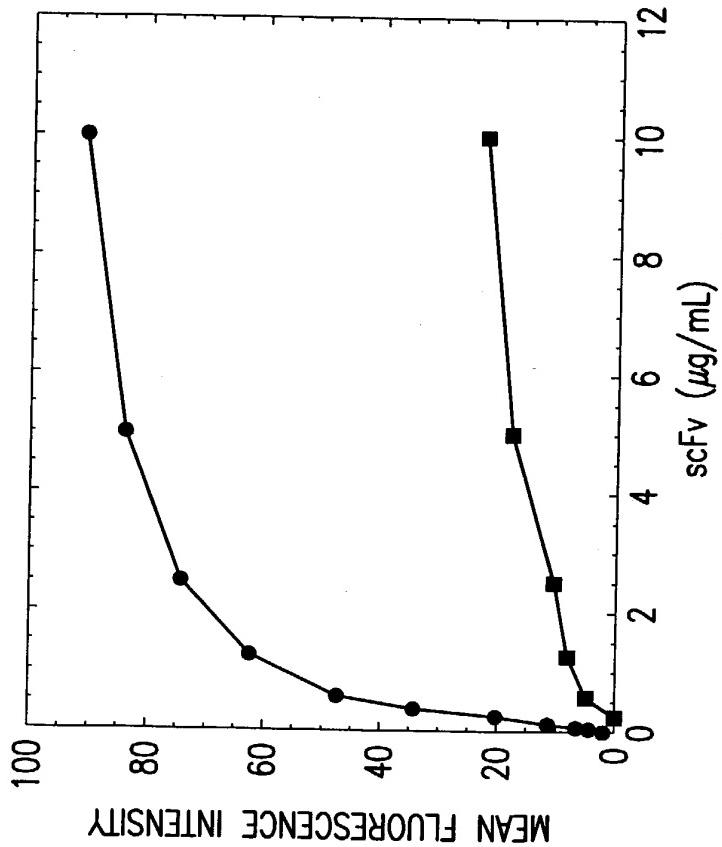


FIG.29A

Docket No.: 7853-234-999
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Inventor(s): BUSFIELD ET AL.
Title: "GLYCOPROTEIN VI AND USES THEREOF"

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ket No.: 7853-234-99

Serial No.: 09/829,495

Inventor(s): BUSFIELD ET AL.

Title: "GLYCOPROTEIN VI AND USES THEREOF"

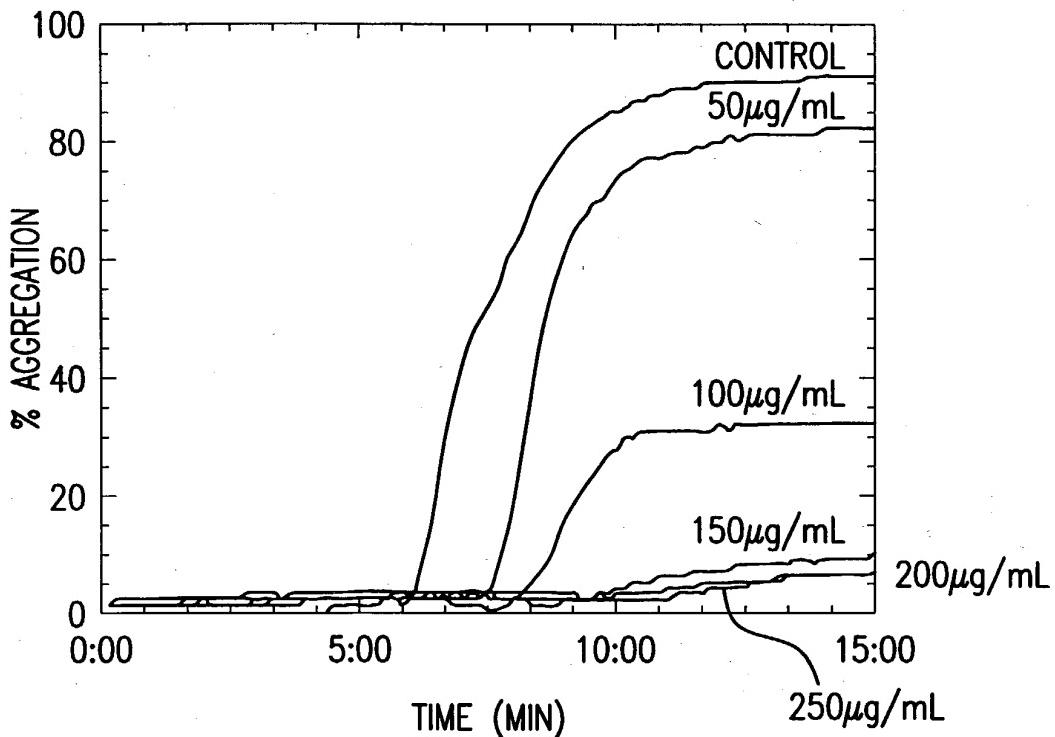


FIG.30A

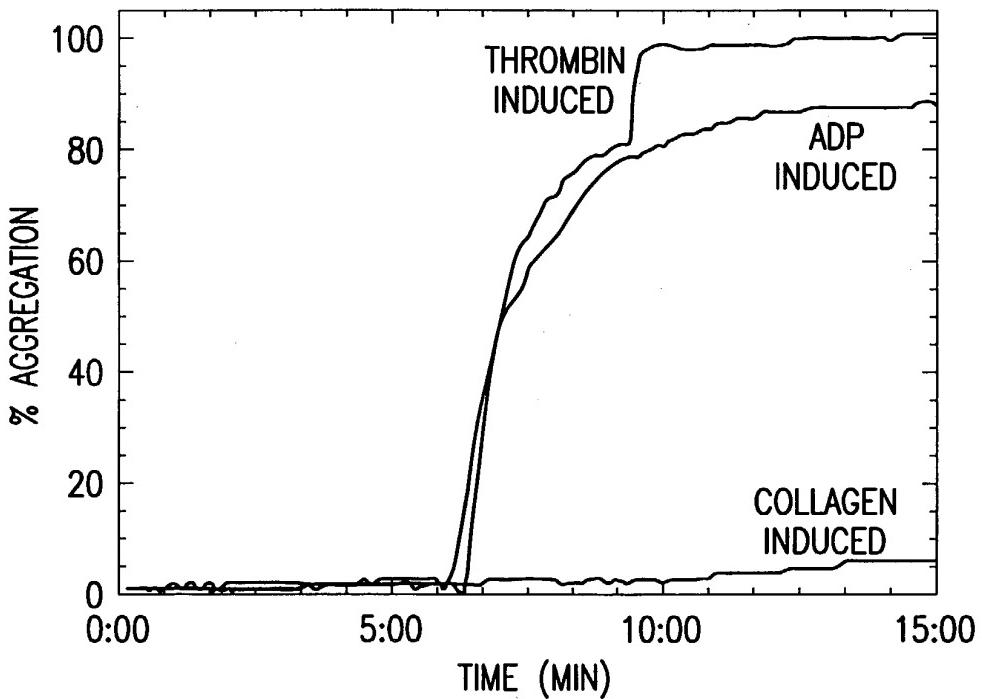


FIG.30B